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1　E-P3P privacy policies and privacy authorization　　　　　　　▤

Paul Ashley, Satoshi Hada, Günter Karjoth, Matthias Schunter
November 2002 **Proceedings of the 2002 ACM workshop on Privacy in the Electronic Society**
Publisher: ACM Press

Full text available: 📄 pdf(146.35 KB)　　Additional Information: full citation, abstract, references, citings, index terms

> Enterprises collect large amounts of personal data from their customers. To ease privacy concerns, enterprises publish privacy statements that outline how data is used and shared. The Platform for Enterprise Privacy Practices (E-P3P) defines a fine-grained privacy policy model. A Chief Privacy Officer can use E-P3P to formalize the desired enterprise-internal handling of collected data. A particular data user is then allowed to use certain collected data for a given purpose if and only if the E- ...

> **Keywords**: E-P3P, privacy manager, privacy policies

2　Special section on advanced XML data processing: Why and how to benchmark XML ▦ databases

Albrecht Schmidt, Florian Waas, Martin Kersten, Daniela Florescu, Michael J. Carey, Ioana Manolescu, Ralph Busse
September 2001 **ACM SIGMOD Record**, Volume 30 Issue 3
Publisher: ACM Press

Full text available: 📄 pdf(612.38 KB)　　Additional Information: full citation, abstract, references, citings, index terms

> Benchmarks belong to the very standard repertory of tools deployed in database development. Assessing the capabilities of a system, analyzing actual and potential bottlenecks, and, naturally, comparing the pros and cons of different systems architectures have become indispensable tasks as databases management systems grow in complexity and capacity. In the course of the development of XML databases the need for a benchmark framework has become more and more evident: a great many different ways t ...

3　Differential Deserialization for Optimized SOAP Performance　　　▤

Nayef Abu-Ghazaleh, Michael J. Lewis

November 2005 **Proceedings of the 2005 ACM/IEEE conference on Supercomputing SC '05**
Publisher: IEEE Computer Society
Full text available: pdf(399.83 KB)   Additional Information: full citation, abstract, index terms

> SOAP, a simple, robust, and extensible protocol for the exchange of messages, is the most widely used communication protocol in the Web services model. SOAP's XML-based message format hinders its performance, thus making it unsuitable in high-performance scientific applications. The deserialization of SOAP messages, which includes processing of XML data and conversion of strings to in-memory data types, is the major performance bottleneck in a SOAP message exchange. This paper presents and evalu ...

4 XML manipulations: Experimenting with the circus language for XML modeling and transformation
Jean-Yves Vion-Dury, Veronika Lux, Emmanuel Pietriga
November 2002 **Proceedings of the 2002 ACM symposium on Document engineering**
Publisher: ACM Press
Full text available: pdf(81.56 KB)   Additional Information: full citation, abstract, references, index terms

> After a brief introduction to the Circus programming language, we present a simple type set to model XML structures. We then describe a transformation that takes a mail as input and produces a reply, showing how subtyping is used in order to refine the type control and specialize the transformation. Conclusions are drawn both on our (easy to use but clearly limited) XML data model and on Circus itself ; expected qualities of the language are verified ; the need for some new features is expressed ...

> **Keywords**: XML, XSLT, circus, document model, programming language, typed document transformation

5 Utilizing traceability links: An XML based approach to support the evolution of model-to-model traceability links
Jonathan I. Maletic, Michael L. Collard, Bonita Simoes
November 2005 **Proceedings of the 3rd international workshop on Traceability in emerging forms of software engineering TEFSE '05**
Publisher: ACM Press
Full text available: pdf(135.84 KB)   Additional Information: full citation, abstract, references, index terms

> The paper summarizes the authors' current research on supporting model-to-model traceability. The authors present a graph theoretic definition of what they mean by models and traceability links. This definition is realized by the use of XML technologies to represent the models and traceability links. Practical means to represent different types of system models (e.g., source code and design) using XML are discussed. Traceability links are also implemented using XML technologies in an efficient a ...

> **Keywords**: maintenance, software evolution, traceability

6 Advanced XML technologies and applications: Hybrid applications over XML: integrating the procedural and declarative approaches
Paolo Manghi, Fabio Simeoni, David Lievens, Richard Connor
November 2002 **Proceedings of the 4th international workshop on Web information and data management**
Publisher: ACM Press
Full text available: pdf(229.35 KB)   Additional Information: full citation, abstract, references, index terms

> We discuss the design of a quasi-statically typed language for XML in which data may be

associated with different structures and different algebras in different scopes, whilst preserving identity. In declarative scopes, data are trees and may be queried with the full flexibility associated with XML query algebras. In procedural scopes, data have more conventional structures, such as records and sets, and can be manipulated with the constructs normally found in mainstream languages.For its origin ...

Keywords: XML high-level bindings, XML programming, XML querying, advanced web applications, web data integration

7 Transformations and Experiences: VXT: a visual approach to XML transformations

Emmanuel Pietriga, Jean-Yves Vion-Dury, Vincent Quint
November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering**
Publisher: ACM Press

Full text available: pdf(165.99 KB)   Additional Information: full citation, abstract, references, citings, index terms

The domain of XML transformations is becoming more and more important as a result of the increasing number of applications adopting XML as their format for data exchange or representation. Most of the existing solutions for expressing XML transformations are textual languages, such as XSLT or DOM combined with a general-purpose programming language. Several tools build on top of these languages, providing a graphical environment. Transformations are however still specified in a textual way using ...

Keywords: XML transformations, XSLT, circus, visual programming languages, zoomable user interfaces

8 Object-Z web environment and projections to UML

Jing Sun, Jin Song Dong, Jing Liu, Hai Wang
April 2001 **Proceedings of the 10th international conference on World Wide Web**
Publisher: ACM Press
Full text available: pdf(267.78 KB)   Additional Information: full citation, references, citings, index terms

Keywords: UML, XML/XSL/XMI, object-Z

9 Standards: An early look at XQuery API for Java™ (XQJ)

Andrew Eisenberg, Jim Melton
June 2004 **ACM SIGMOD Record**, Volume 33 Issue 2
Publisher: ACM Press
Full text available: pdf(1.24 MB)   Additional Information: full citation, abstract, references

In Feb. 2004, the period for submitting Last Call Working Draft comments for most parts of the XQuery specification came to a close. While there is still a great deal of work to be done to make XQuery a W3C Recommendation, the documents have become more stable with each public release. In this column we'd like to provide an initial look at the XQuery API for Java™ (XQJ), a project that is taking place within the Java Community Process (JCP).

10 Algorithms and programming models for efficient representation of XML for Internet applications

Neel Sundaresan, Reshad Moussa
April 2001 **Proceedings of the 10th international conference on World Wide Web**

Publisher: ACM Press
Full text available: 📄 pdf(352.97 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: DOM, SAX, WBXML, XML, compression

11 <u>Native XML database storage and retrieval</u>
George Feinberg
September 2005 **Linux Journal,** Volume 2005 Issue 137
Publisher: Specialized Systems Consultants, Inc.
Full text available: 📄 <u>html(21.51 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

If your application handles XML, shouldn't your database? Here's how one system handles it.

12 <u>GML, Interoperability, and Standards: WMS and GML based interoperable web mapping system</u>
Shashi Shekhar, Ranga Raju Vatsavai, Namita Sahay, Thomas E. Burk, Stephen Lime
November 2001 **Proceedings of the 9th ACM international symposium on Advances in geographic information systems**
Publisher: ACM Press
Full text available: 📄 pdf(1.65 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

Recently the World Wide Web has become a popular vehicle for information distribution and web based geographic information system (GIS) are rapidly evolving and adapting to these new environments. The main hindrance for building true interoperable distributed geographic information systems is the lack of any standard exchange mechanism between the diverse GISes connected over the web. Recent efforts by the OpenGIS Consortium have resulted in several specifications to alleviate these problems. ...

Keywords: DOM, DTD, GIS, GML, SAX, WMS, XML Schema, XSLT

13 <u>Software and document engineering: Supporting document and data views of source code</u>
Michael L. Collard, Jonathan I. Maletic, Andrian Marcus
November 2002 **Proceedings of the 2002 ACM symposium on Document engineering**
Publisher: ACM Press
Full text available: 📄 pdf(162.30 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

The paper describes the use of an XML format to store and represent program source code. A new XML application, srcML (SouRCe Markup Language), is presented. srcML presumes a document view of source code where information about the syntactic structure is layered over the original source code document. The resultant multi-layered document has a base layer of all the original text (and formatting). The second layer is the syntactic information, derived from the grammar of the programming language, ...

Keywords: XML, abstract syntax tree, markup language, program analysis, source code

14 <u>A Benchmark Suite for SOAP-based Communication in Grid Web Services</u>
Michael R. Head, Madhusudhan Govindaraju, Aleksander Slominski, Pu Liu, Nayef Abu-Ghazaleh, Robert van Engelen, Kenneth Chiu, Michael J. Lewis
November 2005 **Proceedings of the 2005 ACM/IEEE conference on Supercomputing SC**

'05

Publisher: IEEE Computer Society

Full text available: 📄 pdf(337.08 KB)   Additional Information: <u>full citation, abstract, index terms</u>

> The convergence of Web services and grid computing has promoted SOAP, a widely used Web services protocol, into a prominent protocol for a wide variety of grid applications. These applications differ widely in the characteristics of their respective SOAP messages, and also in their performance requirements. To make the right decisions, an application developer must thus understand the complex dependencies between the SOAP implementation and the application. We propose a standard benchmark suite ...

15 <u>Models and tools for generating digital libraries: 5SL: a language for declarative specification and generation of digital libraries</u>

Marcos André, Gonçalves, Edward A. Fox

July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available: 📄 pdf(292.78 KB)   Additional Information: <u>full citation, abstract, references, citings, index terms</u>

> Digital libraries (DLs) are among the most complex kinds of information systems, due in part to their intrinsic multi disciplinary nature. Nowadays DLs are built within monolithic, tightly integrated, and generally inflexible systems -- or by assembling disparate components together in an ad-hoc way, with resulting problems in interoperability and adaptability. More importantly, conceptual modeling, requirements analysis, and software engineering approaches are rarely supported, making it extrem ...

Keywords: 5S, 5SL, design tools, generators, languages, models

16 <u>Posters: TCOZ approach to semantic web services design</u>

Jin Song Dong, Yuan Fang Li, Hai Wang

May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**
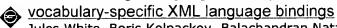
Publisher: ACM Press

Full text available: 📄 pdf(52.51 KB)   Additional Information: <u>full citation, abstract, references, index terms</u>

> Complex Semantic Web (SW) services may have intricate data state, autonomous process behavior and concurrent interactions. The design of such SW service systems requires precise and powerful modelling techniques to capture not only the ontology domain properties but also the services' process behavior and functionalities. In this paper we apply an integrated formal modeling language, Timed Communicating Object Z (TCOZ), to design SW services. Furthermore, the paper presents the development of th ...

Keywords: DAML+OIL, DAML-S, TCOZ, formal methods, semantic web

17 <u>Software design, languages and systems: Reducing application code complexity with vocabulary-specific XML language bindings</u>

Jules White, Boris Kolpackov, Balachandran Natarajan, Douglas C. Schmidt

March 2005 **Proceedings of the 43rd annual southeast regional conference - Volume 2 ACM-SE 43**

Publisher: ACM Press

Full text available: 📄 pdf(498.52 KB)   Additional Information: <u>full citation, abstract, references, index terms</u>

> The eXtensible Markup Language (XML) has become a ubiquitous data exchange and storage format. A variety of tools are available for incorporating XML-based data into applications. The most common XML tools (such as parsers for SAX and DOM) provide

low-level vocabulary-independent interfaces, which can make it hard to develop and debug robust applications. This paper examines tools for generating vocabulary-specific XML-to-C++ language mappings and shows how they can reduce key sources of complex ...

Keywords: C++, DOM, SAX, W3C XML schema, XML, vocabulary-specific language binding

18 Document searching, document annotation, and document metadata: Prefiltering techniques for efficient XML document processing
Chia-Hsin Huang, Tyng-Ruey Chuang, Hahn-Ming Lee
November 2005 **Proceedings of the 2005 ACM symposium on Document engineering DocEng '05**
Publisher: ACM Press
Full text available: pdf(442.96 KB)   Additional Information: full citation, abstract, references, index terms

Document Object Model (DOM) and Simple API for XML (SAX) are the two major programming models for XML document processing. Each, however, has its own efficiency limitation. DOM assumes an in-core representation of XML documents which can be problematic for large documents. SAX needs to scan over the document in a linear manner in order to locate the interesting fragments. Previously, we have used tree-to-table mapping and indexing techniques to help answer structural queries to large, or large c ...

Keywords: DOM, SAX, prefiltering, structural query, two-phased XML processing model

19 Industry session 1: information retrieval: XML parsing: a threat to database performance
Matthias Nicola, Jasmi John
November 2003 **Proceedings of the twelfth international conference on Information and knowledge management**
Publisher: ACM Press
Full text available: pdf(210.86 KB)   Additional Information: full citation, abstract, references, citings, index terms

XML parsing is generally known to have poor performance characteristics relative to transactional database processing. Yet, its potentially fatal impact on overall database performance is being underestimated. We report real-word database applications where XML parsing performance is a key obstacle to a successful XML deployment. There is a considerable share of XML database applications which are prone to fail at an early and simple road block: XML parsing. We analyze XML parsing performance an ...

Keywords: DOM, SAX, XML, database, parser, performance, validation

20 Web technologies and applications (WTA): Using XML and related standards to support Location Based Services
Anastasios Ioannidis, Manos Spanoudakis, Panos Sianas, Ioannis Priggouris, Stathes Hadjiefthymiades, Lazaros Merakos
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(270.83 KB)   Additional Information: full citation, abstract, references, index terms

Location Based Services can be considered as the most rapidly expanding field of the mobile communications sector. The proliferation of the mobile/wireless Internet, the

constantly increasing use of handheld, mobile devices and positioning technologies and the emergence of mobile computing, prepared the grounds for the introduction of this new type of services with impressively large application domain and use range. The combination of position fixing mechanisms with location-dependent, georgrap ...

Keywords: Web Services, XML, location based Services

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